

# RESERVE COPY PATENT SPECIFICATION



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414,722

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## PROVISIONAL SPECIFICATION.

### Improved Indiarubber Cover for Handles.

I, JOSEPH ENTWISLE, a British Subject, of "St. Albans", Broadway, Letchworth, Hertfordshire, do hereby declare the nature of this invention to be as follows:—

The present invention relates to an improved indiarubber cover for handle and is particularly applicable to "grips" for the handle-bars of cycles.

It is already known to make handle-bar "grips" of rubber; such grips have however been liable to split and, furthermore, they are very difficult to fix firmly in position on the handles.

The covered grips according to the present invention are formed of a layer of sponge rubber with an outer covering of crepe rubber.

A cover or grip so constructed possesses the advantage of comfort afforded by the use of sponge rubber, and the further advantage of being waterproof through the use of crepe rubber for the exterior layer. A layer of crepe rubber may also be used within the sponge rubber whereby an improved adhesion between the cover and the handle is obtained.

The cover may consist of an inner tube of crepe rubber partly or completely

surrounded by a layer of sponge rubber with an outer tubular covering of crepe rubber. One end may be closed by means of a circular disc of crepe rubber although this is not essential, whilst at the other end the inner and outer tubes of crepe rubber are made to extend beyond the sponge rubber and are joined together in any suitable manner so as to prevent the access of moisture to the sponge rubber.

If the inner and outer tubes of crepe rubber are both manufactured from flat sheets, it is preferable to arrange the longitudinal seams on diametrically opposite sides of the cover.

Whilst the cover which forms the subject of the present invention is particularly suitable as a grip for a cycle handle, it should be understood that it is capable of being used with many other kinds of handles.

It is well adapted for example, for use as a cover over the handle of an electric iron.

Dated this 3rd day of February, 1933.

REDDIE & GROSE,  
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6, Bream's Buildings, London, E.C. 4.

## COMPLETE SPECIFICATION.

### Improved Indiarubber Cover for Handles.

I, JOSEPH ENTWISLE, a British Subject, of "St. Albans", Broadway, Letchworth, Hertfordshire, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The present invention relates to an improved indiarubber cover of tubular form for handles or grips, which is particularly but not exclusively adapted for use on the handlebars of cycles.

Covers consisting of sponge rubber arranged between inner and outer layers of ordinary vulcanised rubber are already known, as are also covers consisting mainly of crepe rubber.

Known covers of the first mentioned kind have better shock absorbing qualities and

are more comfortable to the hand, but are more liable to split and have inferior frictional properties, as compared with known covers of the second mentioned kind.

The object of the present invention is to obtain the advantages of both known arrangements and at the same time to remove their disadvantages.

This object is attained, according to the present invention, by providing the cover with an external layer of crepe rubber and an inner layer or filling of sponge rubber.

According to a further feature of the present invention the cover may consist of an inner layer or filling of sponge rubber arranged between inner and outer coverings of crepe rubber.

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A constructional embodiment of the cover according to the present invention is illustrated in the accompanying drawings in which:—

5 Fig. 1 is a perspective view of a cover for a cycle handle-bar.

Fig. 2 is a transverse section on the line 2—2 of Fig. 1 and

10 Fig. 3 is a longitudinal section on the line 3—3 of Fig. 2.

The cover consists of an inner tube 1 of crepe rubber, an intermediate layer 2 of sponge rubber and an outer tube 3 of crepe rubber. The tubes 1 and 3 extend beyond the layer 2 and are joined together at 4 and 5, so as to prevent access of water to the sponge rubber. A disc 6 of crepe rubber is fitted over one end of the inner tube 1 so as to be within the outer tube 3, as shown in Fig. 3. The tubes 1 and 3 are made from flat sheets and have longitudinal seams 7 and 8 which are arranged as shown in Fig. 2 at opposite sides of the cover.

25 The tubes 1 and 3 are preferably joined together at the part where they are not separated by the intermediate layer 2 of sponge rubber, so as to give added strength to the cover.

30 If desired the inner and outer tubes 1 and 3 may be separated all the way round by a tubular layer of sponge rubber.

In cases where it is desired to make the cover stronger or less flexible, it may be reinforced by one or more plies of canvas.

35 The improved cover according to the present invention is particularly suitable for use on cycle handle-bars but may also be used on other kinds of handles or grips,

for instance on the handle of an electric iron. 40

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:— 45

1. An indiarubber cover of tubular form for handles or grips, comprising an external layer of crepe rubber and an inner layer or filling of sponge rubber. 50

2. A cover as claimed in claim 1 wherein the inner layer or filling of sponge rubber is arranged between inner and outer coverings of crepe rubber.

3. A cover as claimed in claim 2, wherein the inner and outer coverings of crepe rubber extend beyond the inner layer or filling of sponge rubber and are joined together at the portions so extended. 55

4. A cover as claimed in any one of the preceding claims, wherein one end of the cover is closed by a disc of crepe rubber. 60

5. A cover as claimed in any one of claims 2, 3, or 4 wherein the inner and outer coverings are in the form of tubes made from flat sheets and having longitudinal seams, the said seams being arranged at opposite sides of the cover. 65

6. A cover as claimed in any one of the preceding claims, wherein are provided one or more reinforcing plies of canvas. 70

7. A tubular cover substantially as described with reference to the accompanying drawings.

Dated this 5th day of February, 1934.

REDDIE & GROSE,

Agents for the Applicant,

6, Bream's Buildings, London, E.C. 4.

[This Drawing is a reproduction of the Original on a reduced scale.]

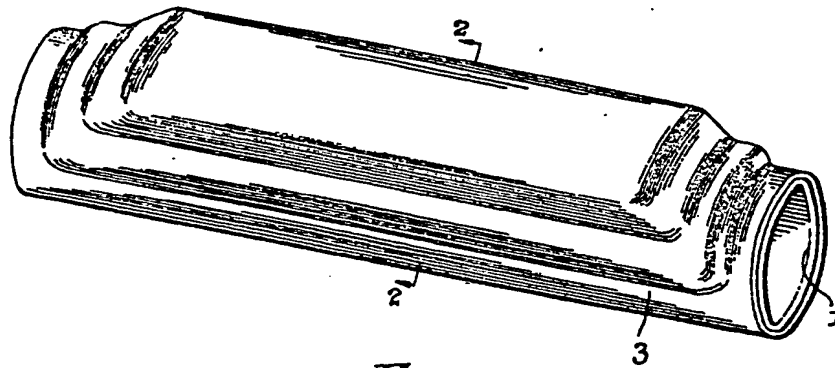


Fig. 1.

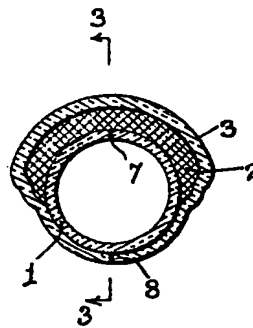


Fig. 2.

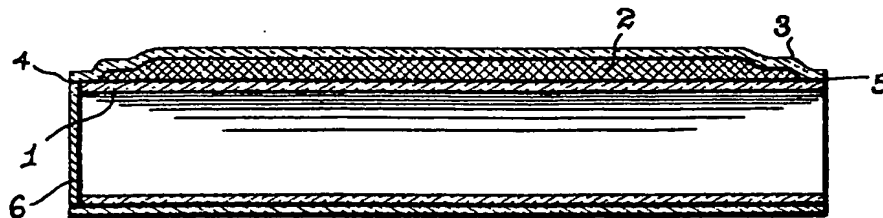


Fig. 3.

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